



Ammendment

Claims

What is claimed is:

1. (Original) A PDP, which has a front panel and a back panel, which is set at a fixed distance from this front panel;

the front panel has two or more sustain scan electrodes arranged in parallel on the above-mentioned front panel surface, two or more data electrodes arranged in the direction which crosses over the above-mentioned sustain scan electrodes, and two or more partitions that are arranged between the above-mentioned front panel and the above-mentioned back panel in order to divide the electric discharge cell;

the above-mentioned sustain scan electrode has a transparent electrode and a bus electrode arranged on the above-mentioned transparent electrode;

the above-mentioned bus electrode is formed sequentially from the side that touches the above-mentioned transparent electrode with a double layer composition of a black ground layer and a non-black electric conduction layer;

the above-mentioned bus electrode is formed by firstly exposing light on a black color positive type photosensitive paste by using the above-mentioned non-black electric conduction layer as a pattern formation mask, and secondly the above-mentioned paste is applied to make the above-mentioned black ground layer.

2. (Withdrawn) A PDP as claimed in claim 1, wherein the above-mentioned black ground layer is formed at first by being deposited on the entire surface, and secondly, by being dried and, thirdly, by being partially stiffened at the part which touches the

above-mentioned selectively-deposited non-black electric conduction layer with a chemical reaction, and fourthly, being partially removed from the non-stiffened black ground layer.

3. (Withdrawn) A PDP as claimed in claim 1, wherein the above-mentioned black ground layer is formed at first by being deposited on the entire surface, and secondly, being dried and, thirdly, being selectively deposited the above-mentioned non-black electric conduction layer, and partially removing the above-mentioned black ground layer that is not covered by the above-mentioned non-black electric conduction layer by physical or chemical etching.

4. (Original) A PDP, which has a front panel and a back panel, which is set at a fixed distance from this front panel;

the front panel has a number of two or more sustain scan electrodes arranged in parallel on the above-mentioned front panel surface, two or more data electrodes arranged in the direction which crosses over the above-mentioned sustain scan electrodes, and two or more partitions that are arranged between the above-mentioned front panel and the above-mentioned back panel in order to divide an electric discharge cell;

the above-mentioned sustain scan electrode is formed sequentially from the side that touches the above-mentioned front panel with a double layer composition of a black ground layer and a non-black electric conduction layer;

the above-mentioned sustain scan electrode is formed by firstly exposing light on a black color positive type photosensitive paste by using the above-mentioned non-black electric conduction layer as a pattern formation mask, and secondly the

above-mentioned black ground layer is applied to make the above-mentioned black ground layer.

5. (Withdrawn) A PDP as claimed in claim 4, wherein the above-mentioned black ground layer is formed at first by being deposited on the entire surface, and secondly, being dried and, thirdly, being partially stiffened at the place that is touched by the above-mentioned selectively deposited non-black electric conduction layer with a chemical reaction, and fourthly, being partially removed at the non-stiffened black ground layer.

6. (Withdrawn) A PDP as claimed in claim 4, wherein the above-mentioned black ground layer is formed at first by being deposited on the entire surface, and secondly, being dried and, thirdly, being selectively covered by the above-mentioned non-black electric conduction layer, and partially removing part of the above-mentioned black ground layer that is not covered by the above-mentioned non-black electric conduction layer by physical or chemical etching.

7. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on a front panel; a black color positive type photosensitivity paste is deposited on both surfaces of the transparent electrode and the portion of the front panel that is not covered by the transparent electrode; the black color positive type photosensitivity paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color positive type photosensitivity paste; the part of the black color positive type photosensitivity paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitivity paste is removed by an application process; the front panel is dried.

8. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color positive type photosensitivity paste is selectively deposited on the transparent electrode; the black color positive type photosensitivity paste is dried; a non-black electric conduction layer is selectively deposited on the deposited black color positive type photosensitivity paste by a screen printing method; the part of the black color positive type photosensitivity paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitive paste is removed by an application process; the front panel is dried.

9. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is deposited on both surfaces of the transparent electrode and the part of the front panel that is not covered by the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the black color paste is partially stiffened at the part that is touched by the above-mentioned selectively deposited non-black electric conduction layer with a chemical reaction; a part of the non-stiffened black ground layer is removed.

10. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is selectively deposited on the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the black color paste is partially stiffened at the part that is touched by the above-mentioned selectively

deposited non-black electric conduction layer with a chemical reaction; a part of the non-stiffened black ground layer is removed.

11. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is deposited on both surfaces of the transparent electrode and the part of the front panel that is not covered by the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the deposited black color paste which is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

12. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is selectively deposited on the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the deposited black color paste which is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

13. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A black color positive type photosensitive paste is deposited on the entire surface of the front panel; the black color positive type photosensitive paste is dried; a non-black electric conduction layer is selectively deposited on the deposited black color positive type photosensitive paste by a screen printing method; the part of the black color positive type photosensitive paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitive paste is removed by an application process; the front

panel is dried.

14. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A black color positive type photosensitivity paste is selectively deposited on the front panel; the black color positive type photosensitivity paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color positive type photosensitivity paste; the part of the black color positive type photosensitivity paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitivity paste is removed by an application process; the front panel is dried.

15. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A black color paste is deposited on the entire surface of the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; a part of the black color paste that is touched by the selectively deposited above-mentioned non-black electric conduction layer is stiffened with a chemical reaction; the non-stiffened black color paste is removed; the front panel is dried.

16. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A black color paste is selectively deposited on the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the black color paste which is touched by the above-mentioned selectively deposited non-black electric conduction layer is stiffened with a chemical reaction; the non-stiffened black color paste is removed; the front panel is dried.

17. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A black color paste is deposited on the entire surface of the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited as a stripe pattern by a screen printing method on the deposited black color paste; a part of the black color paste which is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

18. (Withdrawn) A method for fabricating a plasma display panel, comprising the following steps: A black color paste is selectively deposited in a stripe pattern on the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited in a stripe pattern by a screen printing method on the deposited black color paste; the part of the black color paste which is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

[0020] (Withdrawn) The invention is characterized 2ndly by the following features; the above-mentioned black ground layer is formed by, at first, being deposited on the entire surface, and secondly, being dried and, thirdly, being partially stiffened at the part which is touched by the above-mentioned selectively deposited non-black electric conduction layer by chemical reaction, fourthly, being partially removed at the non-stiffened black ground layer.

[0021] (Withdrawn) The invention is characterized 3rdly by the following features; the above-mentioned black ground layer is formed by, at first, being deposited all surface, and secondly, being dried and, thirdly, being selectively deposited on the above-mentioned non-black electric conduction layer, and partially removed from the

part of the above-mentioned black ground layer that is not covered by the above-mentioned non-black electric conduction layer by physical or chemical etching.

[0022](Currently amended) The invention is characterized ~~4thly~~2ndly by comprising of a front panel and a back panel that are set at a fixed distance from the front panel, a number of two or more of sustain scan electrodes arranged in parallel on the above-mentioned front panel surface.

[0023](Original) The front panel has two or more data electrodes arranged in the direction that crosses over the above-mentioned sustain scan electrodes, and two or more partitions that are arranged between the above-mentioned front panel and the above-mentioned back panel in order to divide an electric discharge cell.

[0024](Original) The above-mentioned sustain scan electrode is formed sequentially from the side which touches the above-mentioned front panel with a double layer composition of a black ground layer and a non-black electric conduction layer.

[0025](Original) The above-mentioned sustain scan electrode is formed by carrying out light exposure by using the above-mentioned non-black electric conduction layer as a pattern formation mask on which the positive type photosensitivity paste of the above-mentioned black ground layer was applied and then dried.

[0026](Withdrawn) The invention is characterized 5thly by the following features; the above-mentioned black ground layer is formed firstly by being deposited on the entire surface, and secondly, being dried and, thirdly, being partially stiffened at the part that is touched by the above-mentioned selectively deposited non-black electric conduction layer with a chemical reaction, and fourthly, being partially removed from the non-stiffened black ground layer.

[0027] (Withdrawn) The invention is characterized 6thly by the following features; the above-mentioned black ground layer is formed firstly by being deposited on the entire surface, and secondly, being dried and, thirdly, being selectively deposited the above-mentioned non-black electric conduction layer, and the part of the

above-mentioned black ground layer which is not covered by the above-mentioned non-black electric conduction layer partially removed by physical or chemical etching.

[0028] (Withdrawn) The invention is characterized 7thly by the following fabrication process features comprising the following steps: A transparent electrode is deposited and patterned on a front panel; a black color positive type photosensitivity paste is deposited on both surfaces of the transparent electrode and the area of the front panel that is not covered by the transparent electrode; the black color positive type photosensitivity paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color positive type photosensitivity paste; the part of the black color positive type photosensitivity paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitivity paste is removed by an application process; the front panel is dried.

[0029] (Withdrawn) The invention is characterized 8thly by the following fabrication process features comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color positive type photosensitivity paste is selectively deposited on the transparent electrode; the black color positive type photosensitivity paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color positive type photosensitivity paste; the part of the black color positive type photosensitivity paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitivity paste is removed by an application process; the front panel is dried.

[0030] (Withdrawn) The invention is characterized 9thly by the following fabrication process features comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is deposited on both surfaces of the transparent electrode and the area of the front panel that is not covered by the transparent electrode; the black color paste is dried; a non-black electric conduction

layer is selectively deposited on the deposited black color paste by a screen printing method; the black color paste is partially stiffened with a chemical reaction at the place where it is touched by the selectively deposited above-mentioned non-black electric conduction layer; a part of non-stiffened black ground layer is removed.

[0031] (Withdrawn) The invention is characterized 10thly by the following process features comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is selectively deposited on the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the black color paste is partially stiffened with a chemical reaction at the place where it is touched by the selectively deposited above-mentioned non-black electric conduction layer; a part of non-stiffened black ground layer is removed.

[0032] (Withdrawn) The invention is characterized 11thly by the following process features comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is deposited on both surfaces of the transparent electrode and the area of the front panel that is not covered by the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the deposited black color paste that is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

[0033] (Withdrawn) The invention is characterized 12thly by the following process features comprising the following steps: A transparent electrode is deposited and patterned on the front panel; a black color paste is selectively deposited on the transparent electrode; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the deposited black color paste that is not covered by the

above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

[0034] (Withdrawn) The invention is characterized 13thly by the following process features comprising the following steps: A black color positive type photosensitivity paste is deposited on the entire surface of the front panel; the black color positive type photosensitivity paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color positive type photosensitive paste; the part of the black color positive type photosensitive paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitive paste is removed by an application process; the front panel is dried.

[0035] (Withdrawn) The invention is characterized 14thly by the following process features comprising the following steps: A black color positive type photosensitive paste is selectively deposited on the front panel; the black color positive type photosensitive paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color positive type photosensitive paste; the part of the black color positive type photosensitive paste that is not covered by the non-black electric conduction layer is exposed to light; the exposed black color positive type photosensitive paste is removed by an application process; the front panel is dried.

[0036] (Withdrawn) The invention is characterized 15thly by the following process features comprising the following steps: A black color paste is deposited on the entire surface of the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the black color paste that is touched by the selectively deposited above-mentioned non-black electric conduction layer is stiffened with a chemical reaction; the non-stiffened black color paste is removed; the front panel is dried.

[0037] (Withdrawn) The invention is characterized 16thly by the following process features comprising the following steps: A black color paste is selectively deposited on the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method on the deposited black color paste; the part of the black color paste that is touched by the selectively deposited above-mentioned non-black electric conduction layer is stiffened with a chemical reaction; the non-stiffened black color paste is removed; the front panel is dried.

[0038] (Withdrawn) The invention is characterized 17thly by the following process features comprising the following steps: A black color paste is deposited on the entire surface of the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method as a stripe pattern on the deposited black color paste; the part of the black color paste that is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.

[0039] (Withdrawn) The invention is characterized 18thly by the following process features comprising the following steps: A black color paste is selectively deposited as a stripe pattern on the front panel; the black color paste is dried; a non-black electric conduction layer is selectively deposited by a screen printing method as a stripe pattern on the deposited black color paste; the part of the black color paste that is not covered by the above-mentioned non-black electric conduction layer is removed by physical or chemical etching.